

Claims

1. The input device for inputting control instructions in a data processing system (MT) has the following features:
 - 5 - a movement acquisition device (SEN) used to capture a translative movement of a reference point (PF, ZM) of the input device and to output appropriate movement data;
 - a display device (DSP, DSP1, DSP2) with a first display field (AZ1) for displaying a field (VT, VS) of control
10 elements, which are respectively allocated at least one specific control instruction;
 - a control device (ST) for controlling the display device (DSP, DSP1, DSP2) in such a way that the field of control elements (VT, VTS) is displaced in response to the movement
15 data outputted by the movement acquisition device (SEN) on the first display field (AZ1),
 - a selector device (SK1, SK2) for selecting a control element(HE) from the field of control elements which is located in a specific selection segment (PF, ZM) of the first
20 display field.
2. Input device according to claim 1,
in which the field of control elements (VT, VS) takes the form of a virtual keyboard for which one or more characters are
25 allocated to individual keys as control elements.
3. Input device according to claim 1 or 2,
in which the movement acquisition device (SEN) comprises an optical or mechanical sensor or an acceleration sensor.
30
4. Input device according to claim 3,

in which the mechanical sensor takes the form of a roller sensor for capturing the rolling movement of a ball on a surface.

- 5 5. Input device according to claim 3,
in which the acceleration sensor takes the form of a longitudinal acceleration sensor for capturing an acceleration of a reference point (PF, ZM) of the input device.
- 10 6. Input device according to one of the claims 1 to 5, which also comprises a second movement acquisition device for capturing a rotation about an axis passing through the reference point (PF, ZM) and for outputting relevant movement data to the control device (ST).
- 15 7. Input device according to one of the claims 1 to 6,
in which the display device (DSP1) comprises a second display field (AZ2) designed to display allocated control instructions, several to one control element, located in the
20 specific selection segment of the first display field (AZ).
8. Input device according to claim 7,
in which the selector device (SK1, SK2) comprises several selection means, of which one selection means (SK1, SK2) is
25 respectively allocated to a specific control instruction (SA1, SA2) of the control instructions for one control element (HE).
9. Input device according to claim 8,
in which the selection means (SK1, SK2) are positioned next to
30 the second display field (AZ2) in such a way that a respective selection means is located next to a view of a respective control instruction.

10. Input device according to one of the claims 1 to 9,
in which the display device (DSP1) comprises a third display
field (AZ3) which is designed to display the most recently
selected control instructions.

5

11. Input device according to one of the claims 1 to 10,
in which the control device is designed in such a way that it
controls the display device so that at least one of the
control elements from the field of control elements moves

10 independently on the first display field.

12. Data processing system with an input device according to
one of the claims 1 to 11.

15 13. Data processing system according to claim 12 which takes
the form of a mobile radio unit, a mobile telephone (MT), a
portable computer or a wristwatch.